

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 56-000279

(43)Date of publication of application : 06.01.1981

(51)Int.Cl.

C23F 7/00

(21)Application number : 54-073985

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(22)Date of filing : 14.08.1979

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(54) SURFACE TREATING LIQUID FOR ZINC OR ZINC ALLOY PLATED STEEL PLATE

(57)Abstract:

PURPOSE: To provide a surface treatment liquid capable of forming a harmless layer having excellent corrosion resistance and adhesivity to coating layer on the surface of zinc or galvanized steel plate by inclusion of metal salt of phytic acid and one or more of polyamines represented by a specific formula.

CONSTITUTION: A proper amount of an alkali metal salt to phytic acid or its zincate, one or more of polyamines such as ethylenediamine and diethylenetriamine represented by a general formula (A and B: hydrogen or 3-aminopropyl gp., n: an integer of 1W10) is dissolved into solvent (preferably water) to form a surface treating agent. The treating agent forms on the surface of zinc or zinc alloy plated steel plate a corrosion resistant layer which contains no Cr, and gives good coating adhesivity and corrosion resistance after coating.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]